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1 Coordinating agent activities in knowledge discovery processes   ■

David Jensen, Yulin Dong, Barbara Staudt Legner, Eric K. McCall, Leon J. Osterweil, Stanley M. Sutton, Alexander Wise

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: 🗎 pdf(1.26 MB)   Additional Information: full citation, abstract, references, index terms

> Knowledge discovery in databases (KDD) is an increasingly widespread activity. KDD processes may entail the use of a large number of data manipulation and analysis techniques, and new techniques are being developed on an ongoing basis. A challenge for the effective use of KDD is coordinating the use of these techniques, which may be highly specialized, conditional and contingent. Additionally, the understanding and validity of KDD results can depend critically on the processes by which they were ...

> **Keywords**: agenda management, agent coordination, knowledge discovery process, knowledge representation, process programming

2 Poster session: A distributed mechanism for topology discovery in ad hoc wireless networks using mobile agents   ■

Romit RoyChoudhury, S. Bandyopadhyay, Krishna Paul

November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing MobiHoc '00**

Publisher: IEEE Press

Full text available: 🗎 pdf(160.43 KB)   Additional Information: full citation, abstract, references, citings

> The dynamics of wireless ad hoc networks as a consequence of mobility and disconnection of mobile hosts pose a number of problems in designing proper routing schemes for effective communication between any source and destination [1]. The conventional proactive routing protocols that require to know the topology of the entire network is not suitable in such a highly dynamic environment, since the topology update information needs to be propagated frequently throughout the network. On t ...

3 InfoSleuth: agent-based semantic integration of information in open and dynamic environments   ■

R. J. Bayardo, W. Bohrer, R. Brice, A. Cichocki, J. Fowler, A. Helal, V. Kashyap, T. Ksiezyk, G. Martin, M. Nodine, M. Rashid, M. Rusinkiewicz, R. Shea, C. Unnikrishnan, A. Unruh, D. Woelk
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2
Publisher: ACM Press

Full text available: pdf(1.69 MB)   Additional Information: full citation, abstract, references, citings, index terms

The goal of the InfoSleuth project at MCC is to exploit and synthesize new technologies into a unified system that retrieves and processes information in an ever-changing network of information sources. InfoSleuth has its roots in the Carnot project at MCC, which specialized in integrating heterogeneous information bases. However, recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the types, availability, and volume of data available to a ...

4 Application of intelligent agent technology for managerial data analysis and mining ▪
Ranjit Bose, Vijayan Sugumaran
January 1999 **ACM SIGMIS Database**, Volume 30 Issue 1
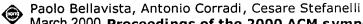**Publisher:** ACM Press
Full text available: pdf(1.96 MB)   Additional Information: full citation, abstract, citings, index terms

Data analysis and mining technologies help bring business intelligence into organizational decision support systems (DSS). While a myriad of data analysis and mining technologies are commercially available today, organizations are seeing a growing gap between powerful storage (data warehouse) systems and the business users' ability to analyze and act effectively on the information they contain. We contend that to narrow this gap effectively, a data analysis and mining environment is needed that ...

Keywords: agent-based design, data mining, data warehouse, decision support systems, intelligent agents, multidimensional analysis, prototype implementation, statistical analysis, visualization

5 A mobile agent infrastructure for the mobility support ▪
Paolo Bellavista, Antonio Corradi, Cesare Stefanelli
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2 SAC '00**
Publisher: ACM Press
Full text available: pdf(826.83 KB)   Additional Information: full citation, references, index terms

Keywords: QoS adaptation, mobile agents, mobile and nomadic computing, mobile tracing, resource discovery

6 An agent-based approach for supporting cross-enterprise workflows ▪
Liangzhao Zeng, Anne Ngu, Boualem Benatallah, Milton O'Dell
January 2001 **Proceedings of the 12th Australasian database conference ADC '01**
Publisher: IEEE Computer Society
Full text available: pdf(774.93 KB)   Additional Information: full citation, abstract, references, citings, index terms
Publisher Site

In order to support global competitiveness and rapid market responsiveness, virtual enterprises need to efficiently integrate different organization's workflows to provide customized services. Currently, most of the integrations are case-based which have high setup cost and involve time consuming low level programming. Cross-enterprise workflow

that is able to streamline and coordinate business processes across organizations in dynamic Web environment provides a low cost and flexible solution. W ...

7 Mobile agents on the digital battlefield

Martin O. Hofmann, Amy McGovern, Kenneth R. Whitebread

May 1998 **Proceedings of the second international conference on Autonomous agents AGENTS '98**

Publisher: ACM Press

Full text available: pdf(1.04 MB)   Additional Information: full citation, references, citings, index terms

8 Resource discovery protocol for mobile computing

Charles E. Perkins, Harry Harjono

December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(246.43 KB)   Additional Information: full citation, abstract, references, citings, index terms

The increasing complexity of modern networks prompts a need for dynamic resource discovery. Mobile clients have the additional need to rediscover the location of local area network resources each time they move to a different LAN. We present a protocol and proposal for the operation of dynamic resource discovery. Our design is simple, extensible, and light weight. We implemented and tested our design with stationary servers, and mobile clients running mobile IP.

9 Web mining research: a survey

Raymond Kosala, Hendrik Blockeel

June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(1.58 MB)   Additional Information: full citation, citings, index terms

Keywords: Web, data mining, information extraction, information retrieval

10 Adaptive information agents in distributed textual environments

Filippo Menczer, Richard K. Belew

May 1998 **Proceedings of the second international conference on Autonomous agents AGENTS '98**

Publisher: ACM Press

Full text available: pdf(1.13 MB)   Additional Information: full citation, references, citings, index terms

11 Mobility support in IPv6

Charles E. Perkins, David B. Johnson

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking MobiCom '96**

Publisher: ACM Press

Full text available: pdf(1.37 MB)   Additional Information: full citation, references, citings, index terms

12

Retriever: an agent for intelligent information recovery

D. Fragoudis, S. D. Likothanassis
January 1999 **Proceeding of the 20th international conference on Information
         Systems ICIS '99**
Publisher: Association for Information Systems
Full text available: 📄 pdf(156.81 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

13 <u>Knowledge encapsulation for focused search from pervasive devices</u>

Yariv Aridor, David Carmel, Yoëlle S. Maarek, Aya Soffer, Ronny Lempel
April 2001 **Proceedings of the 10th international conference on World Wide Web
         WWW '01**
Publisher: ACM Press
Full text available: 📄 pdf(490.70 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: disconnected search, focused search, knowledge agents, pervasive devices

14 <u>A multi-plane state machine agent model</u>

Ladislau Bööni, Dan C. Marinescu
June 2000 **Proceedings of the fourth international conference on Autonomous agents
         AGENTS '00**
Publisher: ACM Press
Full text available: 📄 pdf(232.53 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

15 <u>A workflow-based electronic marketplace on the Web</u>

Asuman Dogac, Ilker Durusoy, Sena Arpinar, Nesime Tatbul, Pinar Koksal, Ibrahim Cingil,
Nazife Dimililer
December 1998 **ACM SIGMOD Record**, Volume 27 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(725.80 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

> In this paper, we describe an architecture for an open marketplace exploiting the
> workflow technology and the currently emerging data exchange and metadata
> representation standards on the Web. In this market architecture electronic commerce is
> realized through the adaptable workflow templates provided by the marketplace to its
> users. Having workflow templates for electronic commerce processes results in a
> component-based architecture where components can be agents (both buying an ...

16 <u>What is scalability in multi-agent systems?</u>

Omer F. Rana, Kate Stout
June 2000 **Proceedings of the fourth international conference on Autonomous agents
         AGENTS '00**
Publisher: ACM Press
Full text available: 📄 pdf(918.10 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: agent-based software engineering, designing agent systems, lessons learned
from deployed agents, multi-agent communication - coordination - and collaboration,
organization of agent societes

17 Wireless and mobility: Evaluation of two security schemes for mobile agents

Igor Sobrado

April 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 2 supplement

Publisher: ACM Press

Full text available: pdf(2.10 MB)   Additional Information: full citation, abstract, references, index terms

> In this article, we submit and compare two different but complementary approaches to the problem of protecting mobile agents in untrusted computing environments. The first alternative, a technique for protection of mobile agents built upon an asymmetric cryptographic system resistant to conventional cryptoanalysis techniques, is based on the application of *one-time keys*. The second solution, geared towards computing environments supporting *public-key cryptographic systems*, permits ...

> **Keywords**: assurance, code protection, cryptography, data protection, information recovery, integrity of information, keys exchange, mobile agents, secure distributed systems

18 SIFTER-II: a heterogeneous agent society for information filtering

Rajeev R. Raje, Mingyong Qiao, Snehasis Mukhopadhyay

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing SAC '01**

Publisher: ACM Press

Full text available: pdf(65.49 KB)   Additional Information: full citation, references, index terms

> **Keywords**: agents, collaboration, information filtering

19 Experiences in the use of FIPA agent technologies for the development of a personal travel application

Jorge Núñez-Suárez, Donie O'Sullivan, Henri Brouchoud, Patrice Cros, Clair Moore, Ciara Byrne

June 2000 **Proceedings of the fourth international conference on Autonomous agents AGENTS '00**

Publisher: ACM Press

Full text available: pdf(1.37 MB)   Additional Information: full citation, references, citings, index terms

> **Keywords**: agent standards, electronic markets, learning, multi agents systems, planning

20 ZEUS: a toolkit and approach for building distributed multi-agent systems

Hyacinth S Nwana, Divine T. Ndumu, Lyndon C. Lee, Jaron C. Collis

April 1999 **Proceedings of the third annual conference on Autonomous Agents AGENTS '99**

Publisher: ACM Press

Full text available: pdf(295.47 KB)   Additional Information: full citation, references, citings, index terms

> **Keywords**: agent building toolkit, agent development methodology

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